

## CLAIMS:

1. A cathode ray tube having a longitudinal axis, a phosphor screen, an electron gun arranged around the longitudinal axis, the electron gun comprising a triode part having three cathodes for generating a red, a green and a blue electron beam, respectively, and two common grids arranged transversely to the longitudinal axis, and a focus lens part having at least two common grids arranged transversely to the longitudinal axis,

characterized in that the cathode for generating the green electron beam is offset from the longitudinal axis, the electron gun being capable of having the green electron beam in the center of the phosphor screen.

2. A cathode ray tube as claimed in claim 1, characterized in that the green cathode lies in one plane with the red and the blue cathode, said plane including the longitudinal axis.

3. A cathode ray tube as claimed in claim 1, characterized in that the green cathode lies in one plane with the red and the blue cathode, said plane being parallel to, and spaced apart from, the longitudinal axis.

4. A cathode ray tube as claimed in claim 1, characterized in that the red and the blue cathode lie in one plane, and in that the green cathode is spaced apart from said plane.

5. A cathode ray tube as claimed in claim 4, characterized in that said plane is parallel to, and spaced apart from, the longitudinal axis.

6. A cathode ray tube as claimed in Claim 1, characterized in that at least one grid of at least one of the triode and focus lens parts of the electron gun is capable of providing a kink in the trajectory of the green beam.

7. A cathode ray tube as claimed in claim 6, characterized in that a first kink is produced in the grid G3a area.

8. A cathode ray tube as claimed in claim 6, characterized in that a second kink is produced in the DAF-DBF area.

- 5 9. A cathode ray tube as claimed in claim 6, characterized in that a first kink is produced near grid G2 and a second kink near grid G3a.